Table J2. - Chemical Properties of the Soils

Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	ln	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
Ad:								
Fluvaquents	0-6			3.6 - 7.3				
	6-42			3.6 - 7.3				
	42-60			4.5 - 6.5				
Atkins								
As:								
Ashton	0-10			5.6 - 7.3				
	10-48			5.6 - 7.3				
	48-60			5.6 - 7.3				
At:								
Atkins	0-10			4.5 - 5.5				
	10-34			4.5 - 5.5				
	34-55			4.5 - 5.5				
Br:								
Brinkerton	0-8			4.5 - 6.0				
	8-25			4.5 - 6.0				
	25-47			4.5 - 6.0				
	47-54			5.1 - 6.5				
CaC:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
p	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CaD:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
- r	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
CaD:								
CaD3:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CaE:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
·	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CaE3:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CaF:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
CaF:								
Gilpin	0-8			3.6 - 5.5				
•	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CaF3:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CgC:								
Calvin	0-6			4.5 - 6.0				
	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
CgE:								
Calvin	0-6			4.5 - 6.0				
ou	6-21			4.5 - 6.0				
	21-24			4.5 - 6.0				
	24-28							
Gilpin	0-8			3.6 - 5.5				
- ··· r -···	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								

CgF:

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
			1 0	<u> </u>				
CgF:				4.5.00				
Calvin	0-6			4.5 - 6.0				
	6-21 21-24			4.5 - 6.0 4.5 - 6.0				
	24-28			4.5 - 0.0				
	2 . 20							
Gilpin	0-8			3.6 - 5.5				
•	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
Other Soils								
Ch:								
Chavies	0-9			4.5 - 7.3				
	9-34			4.5 - 7.3				
	34-50			4.5 - 6.0				
CIB:								
Clymer	0-8			3.6 - 5.5				
	8-38 38-44			3.6 - 5.5 3.6 - 5.5				
	44-48			3.6 - 5.5 				
	44 40							
Unnamed Soil								
CIC:								
Clymer	0-8			3.6 - 5.5				
•	8-38			3.6 - 5.5				
	38-44			3.6 - 5.5				
	44-48							
CpB:								
Срв. Cookport	0-12			4.5 - 5.5				
Обокроп	12-20			3.6 - 5.5				
	20-38			3.6 - 5.5				
	38-42			3.6 - 5.5				
	42-46							
Unnamed Soil								
DLD.								
DbB: Dekalb	0-8			3.6 - 6.5				
Devain	8-33			3.6 - 5.5 3.6 - 5.5				
	33-39			3.6 - 5.5				
	39-43							
DbC:								

DbC:

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
DbC:								
Dekalb	0-8			3.6 - 6.5				
	8-33			3.6 - 5.5				
	33-39 39-43			3.6 - 5.5				
	39-43							
DcD:								
Dekalb	8-0			3.6 - 6.5				
	8-33			3.6 - 5.5				
	33-39 39-43			3.6 - 5.5 				
	33- 4 3							
DcE:								
Dekalb	0-8			3.6 - 6.5				
	8-33 33-39			3.6 - 5.5 3.6 - 5.5				
	39-43			3.0 - 3.5				
	00 10							
DsC:								
Dekalb	0-8			3.6 - 6.5				
	8-33 33-39			3.6 - 5.5 3.6 - 5.5				
	39-43			3.0 - 3.5				
	00 10							
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31 31-35			3.6 - 5.5 				
	31-33							
DsE:								
Dekalb	0-8			3.6 - 6.5				
	8-33			3.6 - 5.5				
	33-39 39-43			3.6 - 5.5 				
	33-43							
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
DsF:								
Dekalb	0-8			3.6 - 6.5				
	8-33			3.6 - 5.5				
	33-39			3.6 - 5.5				
	39-43							
Gilpin	0-8			3.6 - 5.5				
- r	8-22			3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
DsF:								
ErB:								
Ernest	0-7			4.5 - 6.0				
	7-27			4.5 - 5.5				
	27-47			4.5 - 5.5				
	47-55			4.5 - 5.5				
Lickdale								
ErC:								
Ernest	0-7			4.5 - 6.0				
	7-27			4.5 - 5.5				
	27-47			4.5 - 5.5				
	47-55			4.5 - 5.5				
EsC:								
Ernest	0-7			4.5 - 6.0				
	7-27			4.5 - 5.5				
	27-47			4.5 - 5.5				
	47-55			4.5 - 5.5				
Objects	0.0			45 55				
Shelocta	0-8 8-44			4.5 - 5.5 4.5 - 5.5				
	44-60			4.5 - 5.5 4.5 - 5.5				
	44-00			4.0 - 0.0				
EsE:								
Ernest	0-7			4.5 - 6.0				
	7-27			4.5 - 5.5				
	27-47			4.5 - 5.5				
	47-55			4.5 - 5.5				
Shelocta	0-8			4.5 - 5.5				
	8-44			4.5 - 5.5				
	44-60			4.5 - 5.5				
OID								
GIB:	0-8			3.6 - 5.5				
Gilpin	0-6 8-22			3.6 - 5.5 3.6 - 5.5				
	22-31			3.6 - 5.5				
	31-35							
GIC:								
Gilpin	0-8			3.6 - 5.5				
	8-22			3.6 - 5.5				
	22-31 31-35			3.6 - 5.5				
	31-33							
GIC3·								

GIC3:

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
GIC3: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
GID: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
GID3: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
GIE: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
GIE3: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
GIF: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
GIF3: Gilpin	0-8 8-22 22-31 31-35	 	 	3.6 - 5.5 3.6 - 5.5 3.6 - 5.5	 	 	 	
Gr: Fluvents	0-6 6-42 42-60	 	 	3.6 - 7.3 3.6 - 7.3 4.5 - 6.5	 	 	 	
La: Landes	0-11 11-60		 	6.1 - 8.4 6.1 - 8.4	 			

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
La:								
Atkins								
Lc:								
Lickdale	0-10			4.0 - 5.5				
	10-40 40-60			4.0 - 5.5 4.0 - 5.0				
	40-00			4.0 - 5.0				
Ma:								
Udorthents,dumps,low	0-6							
	6-60							
McB:								
Meckesville	0-4			3.6 - 5.5				
	4-38			3.6 - 5.5				
	38-62 62-70			3.6 - 5.5 3.6 - 5.5				
	02 70			0.0 0.0				
Atkins								
McC:								
Meckesville	0-4			3.6 - 5.5				
	4-38			3.6 - 5.5				
	38-62			3.6 - 5.5				
	62-70			3.6 - 5.5				
MdC:								
Meckesville	0-4			3.6 - 5.5				
	4-38			3.6 - 5.5				
	38-62 62-70			3.6 - 5.5 3.6 - 5.5				
	02-70			3.0 - 3.3				
MdE:								
Meckesville	0-4			3.6 - 5.5				
	4-38 38-62			3.6 - 5.5 3.6 - 5.5				
	62-70			3.6 - 5.5 3.6 - 5.5				
Me:								
Udorthents,dumps,low	0-6							
	6-60							
MgA:								
Monongahela	0-13			4.5 - 5.5				
	13-28			4.5 - 5.5				
	28-56			4.5 - 5.5				
MgB:								

Distribution Generation Date: 5/20/02

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
MgB:								
Monongahela	0-13			4.5 - 5.5				
	13-28			4.5 - 5.5				
	28-56			4.5 - 5.5				
MkC:								
Muskingum	0-11			4.5 - 6.0				
	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
MkC3:								
Muskingum	0-11			4.5 - 6.0				
•	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
MkD:								
Muskingum	0-11			4.5 - 6.0				
	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
MkD3:								
Muskingum	0-11			4.5 - 6.0				
	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
MkE:								
Muskingum	0-11			4.5 - 6.0				
ŭ	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
MkE3:								
Muskingum	0-11			4.5 - 6.0				
Waskingam	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
MkF:								
Muskingum	0-11			4.5 - 6.0				
Madringani	11-32			4.5 - 5.5				
	32-35			4.5 - 5.5				
	35-39							
Mac.								

MnE:

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
MnE:								
Muskingum	0-11			4.5 - 6.0				
	11-32 32-35			4.5 - 5.5 4.5 - 5.5				
	35-39			4.5 - 5.5				
MnF: Muskingum	0-11 11-32		 	4.5 - 6.0 4.5 - 5.5				
	32-35			4.5 - 5.5 4.5 - 5.5				
	35-39							
Ph:								
Philo	0-10			4.5 - 6.0				
	10-50			4.5 - 6.0				
Atkins								
Po:								
Pope	0-7			3.6 - 5.5				
	7-32			3.6 - 5.5				
	32-50			3.6 - 5.5				
Atkins								
RaB:								
Rayne	0-10			4.5 - 5.5				
	10-33			4.5 - 5.5				
	33-45			4.5 - 5.5				
	45-49							
RaC:	0.40							
Rayne	0-10 10-33			4.5 - 5.5				
	33-45			4.5 - 5.5 4.5 - 5.5				
	45-49							
ShC:								
Shelocta	0-8			4.5 - 5.5				
	8-44			4.5 - 5.5				
	44-60			4.5 - 5.5				
ShD:								
Shelocta	0-8			4.5 - 5.5				
	8-44 44-60			4.5 - 5.5 4.5 - 5.5				
				0.0				
ShE:								

Table J2. - Chemical Properties of the Soils - Continued

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbonate Exchange	Gypsym	Salinity	Sodium Adsorption Ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
Shelocta	0-8			4.5 - 5.5				
	8-44			4.5 - 5.5				
	44-60			4.5 - 5.5				
Sr:								
Rock Outcrop,hard	0-60							
St:								
Udorthents, mudstone,	0-6			3.6 - 7.3				
,	6-60			3.6 - 7.3				
SuB:								
Summers	0-14			4.5 - 5.5				
	14-22			4.5 - 5.5				
	22-33			4.5 - 5.5				
	33-37							
U:								
Urban Areas								
w:								
Water								
WhB:								
Wharton	0-9			4.0 - 5.5				
	9-42			4.0 - 5.5				
	42-60			4.0 - 5.5				
WhC:								
Wharton	0-9			4.0 - 5.5				
	9-42			4.0 - 5.5				
	42-60			4.0 - 5.5				
WhC3:								
Wharton	0-9			4.0 - 5.5				
	9-42			4.0 - 5.5				
	42-60			4.0 - 5.5				